

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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JC471 U.S. PTO  
10/065187  
09/25/02

EFS ID: 18254  
Application ID: 10065187  
Title of Invention: TEST KEY FOR DETECTING  
ELECTRICAL ISOLATION BETWEEN  
A WORD LINE AND A DEEP  
TRENCH CAPACITOR IN DRAM  
CELLS  
First Named Inventor: Chih-Cheng Liu  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-09-25  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: NAUP0472USA  
Digital Certificate Holder: cn=Winston Hsu, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: GKbFeFnt25t1NGiW7gky8A==  
Total Fees Authorized: \$780.0  
Payment Category: DA -- Deposit Account  
Deposit Account Number: 500801  
Deposit Account Name: WINSTON HSU



# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 780**

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Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

## SUBMITTED BY

Authorized Name: WINSTON HSU  
Electronic Signature Mark: VAEB-JMXX-8IIL  
Date Signed: 20020925

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 15	103	\$ 18	0	\$ 0
Independent Claims: 3	102	\$ 84	0	\$ 0

Subtotal For Extra Claims Fees: \$ 0

ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 40

# TRANSMITTAL FORM

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

NAUP0472USA

Submission Type: Utility  
Patent Filing

## TEST KEY FOR DETECTING ELECTRICAL ISOLATION BETWEEN A WORD LINE AND A DEEP TRENCH CAPACITOR IN DRAM CELLS

First Named Inventor: Chih-Cheng Liu

### SUBMITTED BY

Name:	Mr. Winston Hsu
Registration Number:	41,526
Electronic Signature Mark: Winston Hsu	Date Signed: 20020925
Name:	Mr. Mord Michael Lewis
Registration Number:	50,478
Electronic Signature Mark: Mord Michael Lewis	Date Signed: 20020925

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*application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

Attached Files:

declaration	NAUP0472DEC1.TIF
declaration	NAUP0472DEC2.TIF
specification	NAUP0472.xml
patent-assignments	NAUP0472asgn.xml
fee-transmittal	NAUP0472fee.xml
bibd-transmittal	NAUP0472apds.xml

Attached Image File(s):

NAUP0472DEC1.TIF  
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Comments: